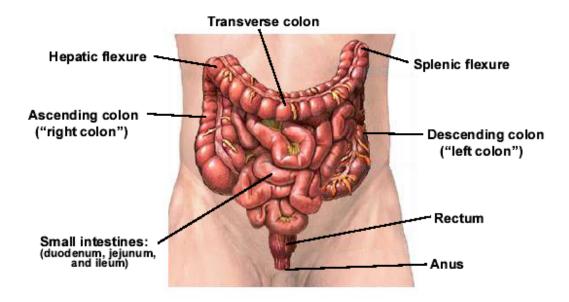
# COLORECTAL CANCER

# COLORECTAL CANCER GENERAL PROFILE<sup>4</sup>

Figure 75. Anatomy of the Digestive System<sup>5</sup>



**General Anatomy:** The colon and rectum are parts of the body's digestive system, which removes nutrients from food and stores waste until it passes out of the body. Together, the colon and rectum form a long, muscular tube called the large intestine (also called the large bowel). The colon is the first 6 feet of the large intestine, and the rectum is the last 8 to 10 inches.

**Risk Factors:** Age, diet, polyps (benign growths on the inner wall of the colon and rectum), personal medical history, family medical history, and ulcerative colitis (the lining of the colon becomes inflamed).

**Signs and Symptoms:** A change in bowel habits, diarrhea, constipation, or feeling that the bowel does not empty completely, blood (either bright red or very dark) in the stool, stools that are narrower than usual, general abdominal discomfort (frequent gas pains, bloating, fullness, and/or cramps), weight loss with no known reason, constant tiredness, and vomiting.

**Diagnosing the Cancer:** Fecal occult blood test, sigmoidoscopy, colonscopy, double contrast barium enema (DCBE), polypectomy, biopsy, and a digital rectal exam.

**Treatment:** Treatment options include: surgery (Colostomy), chemotherapy, radiation therapy, biological therapy, and clinical trials.

#### **HIGHLIGHTS**

- ➤ The ratio of the age-adjusted incidence rate, 53.1, to the age-adjusted mortality rate, 22.9 (per 100,000 2000 US Standard population), for Colorectal Cancer was 2.32 during the 1996 to 2000 period, which means that for every 2.32 Colorectal Cancer cases during this period, there was one death due to Colorectal Cancer in Nevada.
- Nevadan females had a higher ratio than males when the age-adjusted incidence and age-adjusted mortality rates for Colorectal Cancer were compared. For every female death due to Colorectal Cancer there was 2.48 female cases while there were 2.17 male cases for every male Colorectal Cancer death in Nevada from 1996 to 2000.
- ➤ The median age at diagnosis of Colorectal Cancer was 70 years of age for Nevada residents from 1996 to 2000; the median age at time of death was 72 years.

#### **CANCER SCREENING**

- ➤ Of the 3,841 individuals in Nevada who were surveyed in 1997, 1999 and 2001, 51.9% responded no to ever having a blood stool test and/or a sigmoidoscopy or colonoscopy to try and detect early signs of Colorectal Cancer.
- Males had a lower percentage of respondents who said yes to ever having a blood stool test and/or a sigmoidoscopy or colonoscopy than females (49.3%) with a percentage of 46.9% when the questions were asked in 1997, 1999 and 2001.
- Each age group showed statistical significance over the next age group for those respondents who said that they had never had a blood stool test and/or a sigmoidoscopy or colonoscopy, with the 35 to 44 age group having the highest percentage at 85.1% (82.1%-88.1%); being followed by the 45 to 54, 55 to 64 and 65 and older age groups with percentages of 59.8% (57.0%-62.6%), 44.5% (41.3%-47.7%) and 34.6% (31.8%-37.4%), respectively, when these questions were included in the Behavorial Risk Factor Surveillance Survey.

#### **INCIDENCE**

- Nevada's Incidence rate for Colorectal Cancer (53.1) was only slightly lower than the National rate of 54.9 (per 100,000 2000 US Standard population) from 1996 to 2000.
- ➤ There were 4,345 cases of Colorectal Cancer reported in Nevada from 1996 to 2000. Regional comparisons of Colorectal Cancer incidence showed that Clark County had the highest age-adjusted incidence rate, 54.7, followed by Washoe County, 53.4, and the All Other Counties region, 46.5 (per 100,000 2000 US Standard population), during the 1996 to 2000 period.
- Males had a statistically significant higher age-adjusted cancer incidence rate for Colorectal Cancer 60.7 (58.1-63.5) than the female rate of 46.6 (44.5-48.7) during the

1996 to 2000 period.

➤ The Colorectal Cancer age-adjusted incidence rates for Blacks, 56.1 (48.5-65.0), and Whites, 56.1 (54.3-57.9), showed statistical significance over, and were nearly double, the rates for all other racial/ethnic groups from 1996 to 2000. They were followed by Asians, Native Americans and Hispanics with rates of 29.9 (23.5-39.2), 22.5 (13.0-37.4) and 21.7 (17.5-27.0), respectively.

#### **INPATIENT HOSPITAL DISCHARGES**

- There were 4,034 hospital inpatient discharges for a primary diagnosis of Colorectal Cancer to Nevada Residents from 1996 to 2000. Clark County had the highest cancer age-adjusted inpatient discharge rate, 52.2 (50.2-54.3), once regional comparisons were made. However, the rate was only statistically significant over the All Other Counties region who had the lowest age-adjusted discharge rate, 39.7 (36.4-43.3), during this same period.
- ➤ Total billed charges for Colorectal Cancer inpatient hospital discharges in Nevada totaled nearly 134.7 million dollars from 1996 to 2000. The overall average billed charge per day for a hospital inpatient discharge due to Colorectal Cancer was approximately \$3,900 in Nevada from 1996 to 2000.
- ➤ Washoe County had the highest median total billed amount (\$28,274) and average length of stay (8.9 days) during this time, once regional comparisons were made.

#### **MORTALITY**

- ➤ There were 1,792 resident deaths due to Colorectal Cancer in Nevada from 1996 to 2000. Males had a higher statistically significant age-adjusted mortality rate, 28.0 (26.1-30.0), than females who had a rate of 18.8 (17.5-20.2), per 100,000 2000 US Standard population, during this period.
- ➤ Blacks, as a racial/ethnic group, had the highest age-adjusted mortality rate for Colorectal Cancer of any racial/ethnic group, 30.0, and were followed by Whites, Asians, Native Americans, and Hispanics with rates of 23.7, 12.5, 12.0, and 11.3, (per 100,000 2000 US Standard population) respectively, from 1996 to 2000.

#### **SURVIVAL RATE**

- The one-year survival rate for Colorectal Cancer in Nevada was 72.6% during the 1996 to 2000 period, while the five-year survival rate was 33.3% during this same time. The median survival rate in Nevada was 2.64 years.
- Females in Nevada had a slightly higher one-year survival rate (73.6%) than males (71.6%) for Colorectal Cancer during the 1996 to 2000 period. This trend was similar for the median survival time with females and males at 2.81 and 2.54 years, respectively. However, males had a higher five-year survival rate (36.9%) for Colorectal Cancer than females who had a rate of 28.7% during this time.

- ➤ Hispanics had a considerably higher median survival time than other racial/ethnic groups with a period of 4.10 years, while Blacks and Whites had periods of 2.63 and 2.55 years, respectively.
- The five-year survival rate for those diagnosed at the localized stage for Colorectal Cancer was 69.2% for Nevada from 1996 to 2000, while those recorded at the regional, distant and unstaged stages had rates of 35.4%, 5.4% and 16.2%, respectively.
- ➤ While the median survival time for those diagnosed at the localized stage was over five years for Colorectal Cancer, those diagnosed at the regional, distant and unstaged levels had median survival times of 3.21, 0.84 and 0.97 years, respectively, for Nevada during the 1996 to 2000 period.

# **SCREENING (BRFSS)**

Table 107. Colorectal Cancer Screening by County/Region of Residence, Gender, Education, Age Group, and Income, Nevada Residents, 1997, 1999 and 2001

				Answers			
Responses		Yes			No		
	Number	Percent*	95% C.I.	Number	Percent*	95% C.I.	Total
Total							
Responses	1,828	48.1%	(46.5%-49.7%)	2,013	51.9%	(50.3%-53.5%)	3,841
County/Region of Resid	lence						
Clark County	569	48.0%	(45.2%-50.8%)	662	52.0%	(49.2%-54.8%)	1,231
Washoe County	581	49.2%	(46.4%-52.0%)	612	50.8%	(48.0%-53.6%)	1,193
All Other Counties	678	47.7%	(45.1%-50.3%)	739	52.3%	(49.7%-54.9%)	1,417
Gender							
Male	881	46.9%	(44.6%-49.2%)	989	53.1%	(50.8%-55.4%)	1,870
Female	947	49.3%	(47.1%-51.5%)	1,024	50.7%	(48.5%-52.9%)	1,971
Education							
Less than High School	169	51.7%	(46.4%-57.0%)	170	48.3%	(43.0%-53.6%)	339
High School	483	41.9%	(39.0%-44.8%)	664	58.1%	(55.2%-61.0%)	1,147
Some Post High School	600	50.1%	(47.3%-52.9%)	659	49.9%	(47.1%-52.7%)	1,259
College Graduate	572	51.6%	(48.6%-54.6%)	513	48.4%	(45.4%-51.4%)	1,085
Age Group							
18-24 years old	0			0			0
25-34 years old	0			0			0
35-44 years old	89	14.9%	(11.9%-17.9%)	468	85.1%	(82.1%-88.1%)	557
45-54 years old	443	40.2%	(37.4%-43.0%)	740	59.8%	(57.0%-62.6%)	1,183
55-64 years old	529	55.5%	(52.3%-58.7%)	422	44.5%	(41.3%-47.7%)	951
65+ years old	762	65.4%	(62.6%-68.2%)	370	34.6%	(31.8%-37.4%)	1,132
Income							
Less than \$15,000	179	40.0%	(35.1%-44.9%)	201	60.0%	(55.1%-64.9%)	380
\$15,000 - \$24,999	172	50.6%	(45.3%-55.9%)	166	49.4%	(44.1%-54.7%)	338
\$25,000 - \$34,999	228	41.9%	(37.7%-46.1%)	297	58.1%	(53.9%-62.3%)	525
\$35,000 - \$49,999	317	46.4%	(42.7%-50.1%)	392	53.6%	(49.9%-57.3%)	709
\$50,000 or More	606	48.1%	(45.4%-50.8%)	664	51.9%	(49.2%-54.6%)	1,270

<sup>\*</sup>Denominator is persons age 18-64 and excludes missing, don't know, and refused responses.

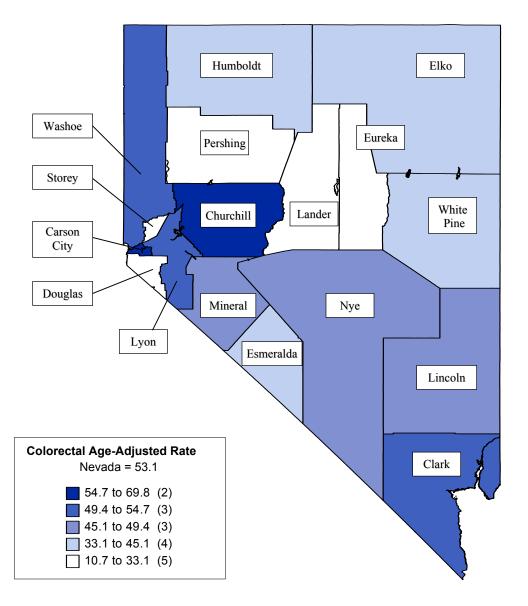
Note: This table includes those respondents who answered "Yes" or "No" to either of the following questions:

<sup>1)</sup> A blood stool test is a test that may use a special kit at home to determine whether the stool contains blood. Have you ever had this test using a home kit?

<sup>2)</sup> A sigmoidoscopy or colonoscopy is when a tube is inserted in the rectum to view the bowel for signs of cancer and other health problems. Have you ever had this exam?

# **INCIDENCE**

Figure 76. Colorectal Cancer Age-Adjusted (2000) Incidence Rates, Nevada Residents, 1996-2000



Note: Rates are per 100,000 population and age-adjusted to 2000 US Standard population. Caution should be used when interpreting rates based upon small numbers. See Technical notes for more information.

Figure 77. Colorectal Cancer Age-Adjusted Incidence Rates by County/Region of Residence, Nevada Residents, 1996-2000

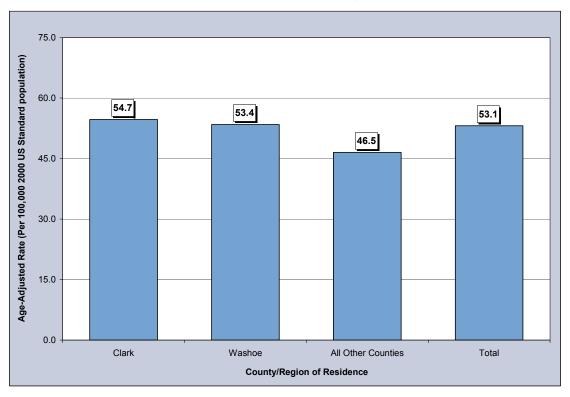


Figure 78. Colorectal Cancer Age-Adjusted Incidence Rates by Race/Ethnicity, Nevada Residents, 1996-2000

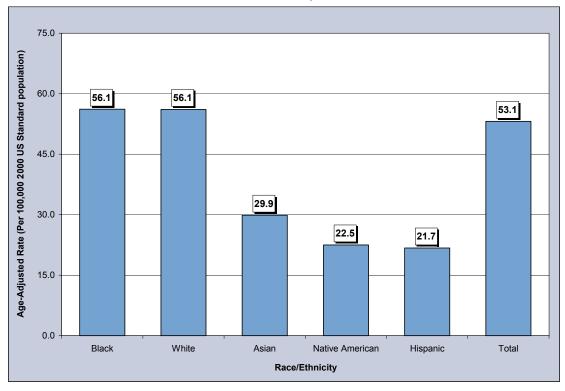


Table 108. Colorectal Cancer Cases by Gender, Race/Ethnicity and County/Region of Residence at Diagnosis, Nevada Residents (1996-2000) and SEER-11 (1995-1999)

		County/Region of Residence								
Category	Nevada Total	Clark	Washoe	All Other Counties	Unknown	SEER 11 (1995-1999)				
Total										
Cases	4,345	2,965	746	634	0	91,312				
Rate*	53.1	54.7	53.4	46.5		54.9				
95% C.I.	(51.5-54.8)	(52.7-56.8)	(49.6-57.5)	(42.9-50.4)		(54.5-55.2)				
Gender										
Male	2,343	1,579	429	335	0	45,698				
Rate*	60.7	61.7	65.5	51.7		64.6				
95% C.I.	(58.1-63.5)	(58.4-65.2)	(59.1-72.7)	(46.0-58.1)		(64.0-65.2)				
Female	2,000	1,386	316	298	0	45,614				
Rate*	46.6	48.7	42.5	42.0		47.6				
95% C.I.	(44.5-48.7)	(46.2-51.4)	(37.9-47.5)	(37.3-47.1)		(47.1-48.0)				
Other/Unknown	2	0	1	1	0	0				
Race/Ethnicity										
White	3,853	2,548	699	606	0	74,892				
Rate*	56.1	58.2	56.6	48.3		54.5				
95% C.I.	(54.3-57.9)	(55.9-60.6)	(52.4-61.0)	(44.5-52.4)		(54.1-54.9)				
Black	224	203	15	6	0	8,436				
Rate*	56.1	55.0	63.5			62.7				
95% C.I.	(48.5-65.0)	(47.1-64.3)	(34.9-109.7)			(61.3-64.1)				
Native American	19	6	8	5	0	214				
Rate*	22.5					19.3				
95% C.I.	(13.0-37.4)					(16.7-16.7)				
Asian	100	81	14	5	0	7,269				
Rate*	29.9	30.9	24.1			48.3				
95% C.I.	(23.5-39.2)	(23.5-42.3)	(12.2-58.3)			(47.2-49.5)				
Hispanic	122	101	10	11	0	5,798				
Rate*	21.7	23.3	13.5	23.1		35.8				
95% C.I.	(17.5-27.0)	(18.3-29.8)	(6.1-31.1)	(10.8-45.4)		(34.8-36.8)				
Other/Unknown	27	26	0	1	0	501				

<sup>\*</sup> Rates are per 100,000 population and age-adjusted to the 2000 US Standard population.

Note: The "---" is used for rates calculated on numbers less than ten and SEER numbers less than five. Caution should be used when comparing rates for racial/ethnic groups to the National (SEER) rates. See Technical Notes for more information.

Table 109. Colorectal Cancer Cases by Age Group and County/Region of Residence at Diagnosis, Nevada Residents (1996-2000) and SEER-11 (1995-1999)

			County/Region	on of Residence		
Category	Nevada Total	Clark	Washoe	All Other Counties	Unknown	SEER 11 (1995-1999)
Total						
Cases	4,345	2,965	746	634	0	91,312
Rate*	46.7	47.1	45.6	46.3		49.3
95% C.I.	(45.3-48.1)	(45.4-48.8)	(42.3-48.8)	(42.7-49.9)		(49.0-49.6)
Age Group						
<1	0	0	0	0	0	
Rate*						
95% C.I.						
1-4	0	0	0	0	0	
Rate*						
95% C.I.						
5-14	1	0	1	0	0	12
Rate*						0.0
95% C.I.						(0.0-0.1)
15-24	1	0	1	0	0	122
Rate*						0.5
95% C.I.						(0.4-0.6)
25-34	30	25	4	1	0	836
Rate*	2.1	2.5				2.9
95% C.I.	(1.3-2.8)	(1.5-3.4)				(2.7-3.0)
35-44	147	112	25	10	0	3,192
Rate*	9.8	11.3	9.0	4.4		10.2
95% C.I.	(8.2-11.4)	(9.2-13.4)	(5.5-12.5)	(1.7-7.2)		(9.9-10.6)
45-54	412	277	73	62	0	8,388
Rate*	34.1	35.0	32.5	32.2		36.7
95% C.I.	(30.8-37.4)	(30.9-39.1)	(25.0-40.0)	(24.2-40.3)		(35.9-37.4)
55-64	865	609	143	113	0	15,120
Rate*	100.5	104.7	101.1	81.9		108.0
95% C.I.	(93.8-107.2)	(96.4-113.1)	(84.5-117.7)	(66.8-97.0)		(106.3-109.7)
65-74	1,430	964	248	218	0	25,963
Rate*	230.7	232.5	245.9	208.6		225.0
95% C.I.	(218.7-242.6)	(217.9-247.2)	(215.3-276.5)	(180.9-236.3)		(222.3-227.8)
75-84	1,138	781	184	173	0	26,555
Rate*	347.2	361.2	334.4	306.3		365.3
95% C.I.	(327.0-367.4)	(335.8-386.5)	(286.1-382.7)	(260.7-352.0)		(360.9-369.7)
85+	320	196	67	57	0	11,123
Rate*	454.2	457.5	464.8	432.0		448.5
95% C.I.	(404.5-504.0)	(393.5-521.6)	(353.5-576.1)	(319.9-544.2)		(440.1-456.8)
Unknown	1	1	0	0	0	0

<sup>\*</sup> Rates are per 100,000 age-specific population.

Note: The "---" is used for rates calculated on numbers less than ten and SEER numbers less than five. See Technical Notes for more information.

Table 110. Colorectal Cancer Cases by County of Residence at Diagnosis, Nevada Residents, 1996-2000

County of		nce			
Residence	Casas	Rat	e*	Age-Adjus	ted Rate**
at Diagnosis	Cases -	Rate	95% C.I.	Rate	95% C.I.
Carson City	157	64.1	(54.0-74.1)	55.9	(47.4-65.5)
Churchill	76	64.4	(49.9-78.9)	69.7	(54.8-87.9)
Clark	2,965	47.1	(45.4-48.8)	54.7	(52.7-56.8)
Douglas	76	38.0	(29.5-46.6)	33.1	(25.8-42.5)
Elko	47	20.5	(14.6-26.4)	45.1	(32.2-61.9)
Esmeralda	2				
Eureka	1				
Humboldt	19	22.6	(12.5-32.8)	36.4	(21.5-59.2)
Lander	7				
Lincoln	12	58.9	(25.6-92.2)	47.9	(24.3-95.6)
Lyon	99	61.2	(49.1-73.2)	54.4	(44.0-67.1)
Mineral	17	61.8	(32.4-91.1)	48.1	(27.5-82.3)
Nye	96	64.7	(51.7-77.6)	49.4	(39.3-62.2)
Pershing	4				
Storey	3				
Washoe	746	45.6	(42.3-48.8)	53.4	(49.6-57.5)
White Pine	18	41.3	(22.2-60.3)	36.2	(21.4-59.1)
Unknown	0				
Total	4,345	46.7	(45.3-48.1)	53.1	(51.5-54.8)

Note: The "---" is used for rates calculated on numbers less than ten. \*Rates are per 100,000 population. \*\*Rates are per 100,000 population and are age-adjusted to the 2000 US Standard population.

Table 111. Colorectal Cancer Cases by Race/Ethnicity and Gender, Nevada Residents, 1996-2000

			Gender						
Rac	e/Ethnicity	Male	Female	Other/ Unknown	Total				
White	Incidence	2,082	1,769	2	3,853				
	Rate*	63.7	49.3		56.1				
	95% C.I.	(60.9-66.8)	(47.0-51.7)		(54.3-57.9)				
Black	Incidence	123	101	0	224				
	Rate*	67.6	47.3		56.1				
	95% C.I.	(54.4-84.9)	(38.1-58.4)		(48.5-65.0)				
Native	Incidence	12	7	0	19				
American	Rate*	30.9			22.5				
	95% C.I.	(13.8-67.7)			(13.0-37.4)				
Asian	Incidence	50	50	0	100				
	Rate*	37.1	24.4		29.9				
	95% C.I.	(25.9-55.7)	(17.6-37.0)		(23.5-39.2)				
Hispanic	Incidence	63	59	0	122				
	Rate*	22.5	20.7		21.7				
	95% C.I.	(16.4-32.1)	(15.2-27.9)		(17.5-27.0)				
Other/Unkr	nown	13	14	0	27				
Total	Incidence	2,343	2,000	2	4,345				
	Rate*	60.7	46.6		53.1				
	95% C.I.	(58.1-63.5)	(44.5-48.7)		(51.5-54.8)				

Note: The "---" is used for rates calculated on numbers less than ten. \*Rates are per 100,000 population and are aga-adjusted to the 2000 US Standard population.

Table 112. Colorectal Cancer Cases by Age Group and Gender, Nevada Residents, 1996-2000

Age		Gen	ıder	
Group	Male	Female	Other/ Unknown	Total
<1	0	0	0	0
Rate*				
95% C.I.				
1-4	0	0	0	0
Rate*				
95% C.I.				
5-14	0	1	0	1
Rate*				
95% C.I.				
15-24	0	1	0	1
Rate*				
95% C.I.				
25-34	12	18	0	30
Rate*	1.6	2.6		2.1
95% C.I.	(0.7-2.5)	(1.4-3.8)		(1.3-2.8)
35-44	69	78	0	147
Rate*	8.9	10.8		9.8
95% C.I.	(6.8-11.0)	(8.4-13.2)		(8.2-11.4)
45-54	231	181	0	412
Rate*	37.7	30.3		34.1
95% C.I.	(32.9-42.6)	(25.9-34.8)		(30.8-37.4)
55-64	519	346	0	865
Rate*	121.1	80.1		100.5
95% C.I.	(110.6-131.5)	(71.6-88.5)		(93.8-107.2)
65-74	812	617	1	1,430
Rate*	265.6	196.4		230.7
95% C.I.	(247.3-283.9)	(180.9-211.9)		(218.7-242.6)
75-84	580	558	0	1,138
Rate*	393.3	309.5		347.2
95% C.I.	(361.3-425.3)	(283.8-335.2)		(327.0-367.4)
85+	120	199	1	320
Rate*	529.3	416.5		454.2
95% C.I.	(434.6-624.0)	(358.6-474.4)		(404.5-504.0)
Unknown	0	1	0	1
Total	2,343	2,000	2	4,345
Rate*	49.5	43.7		46.7
95% C.I.	(47.5-51.5)	(41.8-45.7)		(45.3-48.1)

Note: The "---" is used for rates calculated on numbers less than ten.

<sup>\*</sup> Rates are per 100,000 age-specific population.

Table 113. Colorectal Cancer Cases by Age Group and Stage, Nevada Residents, 1996-2000

				Si	tage		
Age	Group	In situ	Localized	Regional	Distant	Unstaged	Total
<1	Number	0	0	0	0	0	0
	Percent						
1-4	Number	0	0	0	0	0	0
	Percent						
5-14	Number	0	0	1	0	0	1
	Percent			100.0%			100.0%
15-24	Number	0	0	0	1	0	1
	Percent				100.0%		100.0%
25-34	Number	0	10	13	2	5	30
	Percent		33.3%	43.3%	6.7%	16.7%	100.0%
35-44	Number	0	54	41	29	23	147
	Percent		36.7%	27.9%	19.7%	15.6%	100.0%
45-54	Number	0	116	157	93	46	412
	Percent		28.2%	38.1%	22.6%	11.2%	100.0%
55-64	Number	0	255	312	198	100	865
	Percent		29.5%	36.1%	22.9%	11.6%	100.0%
65-74	Number	0	442	544	268	176	1,430
	Percent		30.9%	38.0%	18.7%	12.3%	100.0%
75-84	Number	0	340	412	196	190	1,138
	Percent		29.9%	36.2%	17.2%	16.7%	100.0%
85+	Number	0	77	116	47	80	320
	Percent		24.1%	36.3%	14.7%	25.0%	100.0%
Unknown	Number	0	0	0	0	1	1
	Percent					100.0%	100.0%
Total	Number	0	1,294 29.8%	1,596	834 19.2%	621 14.3%	4,345
	Percent		29.8%	36.7%	19.2%	14.5%	100.0%

Table 114. Colorectal Cancer Cases by Stage and Race/Ethnicity, Nevada Residents, 1996-2000

			Race/Ethnicity						
	Stage	White	Black	Native American	Asian	Hispanic	Other/ Unknown	Total	
In situ	Number	0	0	0	0	0	0	0	
	Percent								
Localized	Number	1,163	57	2	20	37	15	1,294	
	Percent	30.2%	25.4%	10.5%	20.0%	30.3%	55.6%	29.8%	
Regional	Number	1,420	81	5	41	40	9	1,596	
	Percent	36.9%	36.2%	26.3%	41.0%	32.8%	33.3%	36.7%	
Distant	Number	719	52	5	23	34	1	834	
	Percent	18.7%	23.2%	26.3%	23.0%	27.9%	3.7%	19.2%	
Unstaged	Number	551	34	7	16	11	2	621	
	Percent	14.3%	15.2%	36.8%	16.0%	9.0%	7.4%	14.3%	
Total	Number	3,853	224	19	100	122	27	4,345	
	Percent	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

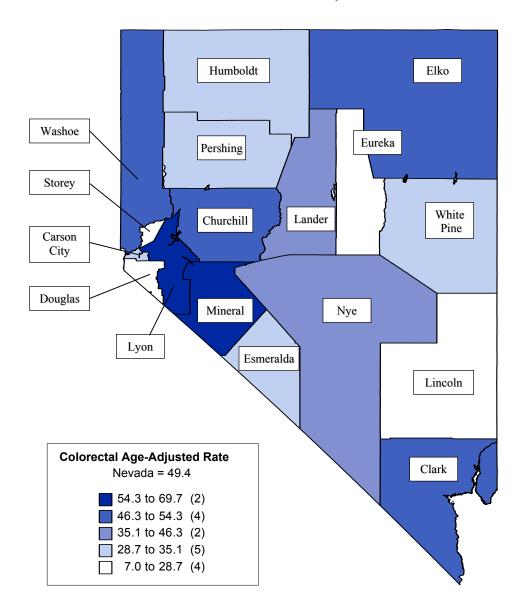
Table 115. Median Age at Diagnosis of Colorectal Cancer by Race/Ethnicity and Gender, Nevada Residents, 1996-2000

	Gender								
Race/Ethnicity	Ма	le	Fem	nale	То	Total			
	Incidence	Median Age	Incidence	Median Age	Incidence	Median Age			
White	2,082	69.0	1,768	72.0	3,850	70.0			
Black	123	64.0	101	64.0	224	64.0			
Native American	12	54.5	7	69.0	19	65.0			
Asian	50	64.0	50	65.5	100	64.5			
Hispanic	63	63.0	59	64.0	122	64.0			
Other/Unknown	13	63.0	14	70.5	27	64.0			
Total	2,343	68.0	1,999	71.0	4,342	70.0			

Note: Those cases of other/unknown gender and/or unknown ages are not included in this table. The median age was not calculated for those numbers less than five.

# INPATIENT HOSPITAL DISCHARGES

Figure 79. Colorectal Cancer Age-Adjusted (2000) Inpatient Discharge Rates, Nevada Residents, 1996-2000



Note: Rates are per 100,000 population and age-adjusted to 2000 US Standard population. Caution should be used when interpreting rates based upon small numbers and comparing inpatient hospital discharge rates to other data sources, because it is occurrence based data. See Technical notes for more information.

Figure 80. Colorectal Cancer Age-Adjusted Inpatient Discharge Rates by County/Region of Residence, Nevada Residents, 1996-2000

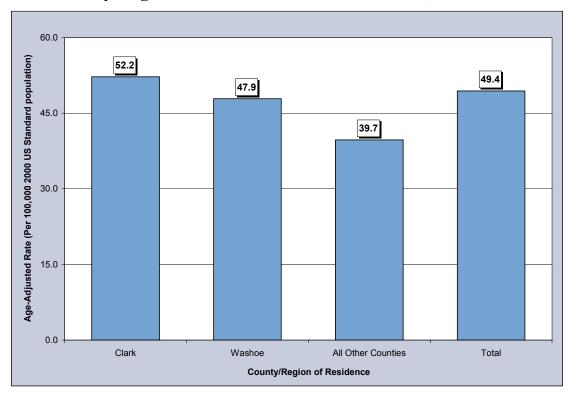


Figure 81. Median Charges for Colorectal Cancer Inpatient Discharges by County/Region of Residence, Nevada Residents, 1996-2000

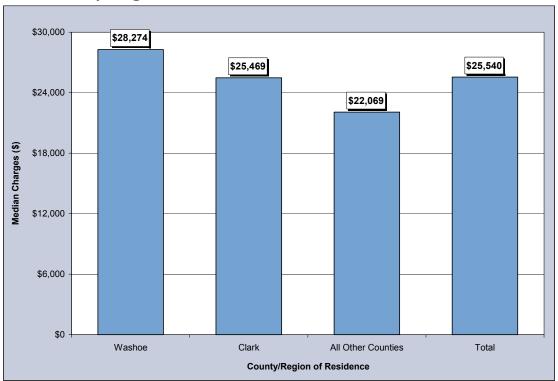


Figure 82. Average Length of Stay for Colorectal Cancer Inpatient Discharges by County/Region of Residence, Nevada Residents, 1996-2000

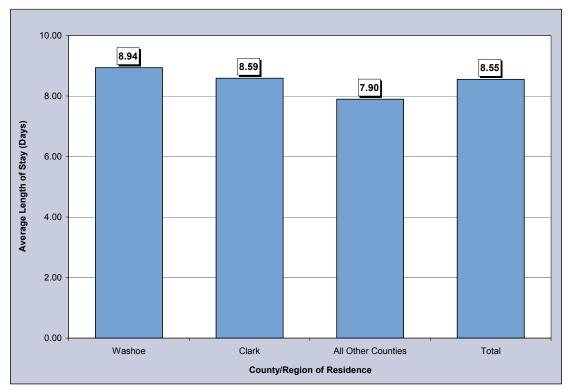


Table 116. Colorectal Cancer Inpatient Discharges by Gender, Charges, Length of Stay, and County/Region of Residence, Nevada Residents, 1996-2000

		Coun	ty/Region of Resid	ence	
Category	Nevada Total	Clark	Washoe	All Other Counties	Unknown
Total					
Discharges	4,034	2,832	661	541	0
Rate*	49.4	52.2	47.9	39.7	
95% C.I.	(47.8-51.0)	(50.2-54.3)	(44.2-51.8)	(36.4-43.3)	
Gender					
Male	2,095	1,483	332	280	0
Rate*	54.0	58.1	51.1	41.9	
95% C.I.	(51.6-56.6)	(54.9-61.5)	(45.5-57.6)	(36.9-47.5)	
Female	1,939	1,349	329	261	0
Rate*	45.2	47.3	44.3	37.1	
95% C.I.	(43.2-47.3)	(44.8-50.0)	(39.7-49.4)	(32.7-42.0)	
Other/Unknown	0	0	0	0	0
Inpatient Discharge Ch	narges (\$)				
Total Charges	\$134,658,129	\$97,330,793	\$22,445,648	\$14,881,688	
Average Charges	\$33,381	\$34,368	\$33,957	\$27,508	
Median Charges	\$25,540	\$25,469	\$28,274	\$22,069	
Discharge Length of S	tay (LOS) (Days)				
Total LOS	34,507	24,326	5,908	4,273	
Average LOS	8.6	8.6	8.9	7.9	
Median LOS	7.0	7.0	8.0	6.0	

<sup>\*</sup> Rates are per 100,000 population and are age-adjusted to the 2000 US Standard population. Note: The "---" is used for rates calculated on numbers less than ten. Caution should be used when comparing inpatient hospital discharge data to other data sources, since it is occurrence-based data. Please see Technical Notes for more information.

Table 117. Colorectal Cancer Inpatient Discharges by Age Group and County/Region of Residence, Nevada Residents, 1996-2000

		County/Region of Residence						
Category	Nevada Total	Clark	Washoe	All Other Counties	Unknown			
Total								
Discharges	4,034	2,832	661	541	0			
Rate*	43.4	45.0	40.4	39.5				
95% C.I.	(42.0-44.7)	(43.3-46.6)	(37.3-43.4)	(36.2-42.8)				
Age Group								
<1	0	0	0	0	0			
Rate*								
95% C.I.								
1-4	0	0	0	0	0			
Rate*								
95% C.I.								
5-14	0	0	0	0	0			
Rate*								
95% C.I.								
15-24	2	2	0	0	0			
Rate*								
95% C.I.								
25-34	29	23	1	5	0			
Rate*	2.0	2.3						
95% C.I.	(1.3-2.8)	(1.3-3.2)						
35-44	117	93	18	6	0			
Rate*	7.8	9.4	6.5					
95% C.I.	(6.4-9.3)	(7.5-11.3)	(3.5-9.5)					
45-54	356	250	58	48	0			
Rate*	29.4	31.6	25.8	21.4				
95% C.I.	(26.4-32.5)	(27.6-35.5)	(19.2-32.5)	(15.3-27.4)				
55-64	807	599	120	88	0			
Rate*	93.7	103.0	84.8	62.2				
95% C.I.	(87.3-100.2)	(94.8-111.3)	(69.7-100.0)	(49.2-75.2)				
65-74	1,320	897	235	188	0			
Rate*	212.9	216.4	233.0	186.4				
95% C.I.	(201.4-224.4)	(202.2-230.5)	(203.2-262.8)	(159.8-213.1)				
75-84	1,112	791	159	162	0			
Rate*	339.3	365.8	288.9	294.4				
95% C.I.	(319.3-359.2)	(340.3-391.3)	(244.0-333.9)	(249.1-339.7)				
85+	291	177	70	44	0			
Rate*	413.1	413.2	485.6	305.2				
95% C.I.	(365.6-460.5)	(352.3-474.0)	(371.8-599.3)	(215.0-395.4)				
Unknown	Ó	Ò	Ó	Ó	0			

<sup>\*</sup> Rates are per 100,000 age-specific population.

Note: The "---" is used for rates calculated on numbers less than ten. Caution should be used when comparing inpatient hospital discharge data to other data sources, since it is occurrence-based data. Please see Technical Notes for more information.

Table 118. Colorectal Cancer Inpatient Discharges by Age Group and Gender, Nevada Residents, 1996-2000

Age		Gender	
Group	Male	Female	Total
<1	0	0	
Rate*			
95% C.I.			
1-4	0	0	0
Rate*			
95% C.I.			
5-14	0	0	0
Rate*			
95% C.I.			
15-24	0	2	2
Rate*			
95% C.I.			
25-34	13	16	29
Rate*	1.7	2.3	2.0
95% C.I.	(0.8-2.7)	(1.2-3.5)	(1.3-2.8)
35-44	56	61	117
Rate* 95% C.I.	7.3	(6.2.10.6)	7.8
	(5.4-9.2)	(6.3-10.6)	(6.4-9.3)
45-54 Rate*	206 33.6	150 25.1	356 29.4
95% C.I.	(29.0-38.2)	(21.1-29.2)	(26.4-32.5)
55-64	464	343	807
Rate*	108.2	79.4	93.7
95% C.I.	(98.4-118.1)	(71.0-87.8)	(87.3-100.2)
65-74	731	589	1,320
Rate*	239.1	187.5	212.9
95% C.I.	(221.8-256.4)	(172.3-202.6)	(201.4-224.4)
75-84	524	588	1,112
Rate*	355.3	326.1	339.3
95% C.I.	(324.9-385.7)	(299.8-352.5)	(319.3-359.2)
85+	101	190	291
Rate*	445.5	397.7	413.1
95% C.I.	(358.6-532.3)	(341.1-454.2)	(365.6-460.5)
Unknown	0	0	0
Total	2,095	1,939	4,034
Rate*	44.3	42.4	43.4
95% C.I.	(42.4-46.2)	(40.5-44.3)	(42.0-44.7)

<sup>\*</sup> Rates are per 100,000 age-specific population.

Note: The "---" is used for rates calculated on numbers less than ten. Caution should be used when comparing inpatient hospital discharge data to other data sources, since it is occurrence-based data. Please see Technical Notes for more information.

Table 119. Colorectal Cancer Inpatient Discharges by County/Region of Residence, Nevada Residents, 1996-2000

0 1 5	1996-2000 Inpatient Hospital Discharges						
County of Residence	Nemakan	Rate*			Age-Adjusted Rate**		
	Number	Rate	95% C.I.	Rate	95% C.I.		
Carson City	82	33.5	(26.2-40.7)	28.7	(22.8-35.8)		
Churchill	59	50.0	(37.2-62.8)	54.3	(41.2-70.6)		
Clark	2,832	45.0	(43.3-46.6)	52.2	(50.2-54.3)		
Douglas	61	30.5	(22.9-38.2)	27.1	(20.5-35.8)		
Elko	45	19.6	(13.9-25.4)	46.3	(32.9-63.6)		
Esmeralda	2						
Eureka	2						
Humboldt	17	20.3	(10.6-29.9)	30.7	(17.6-51.4)		
Lander	11	34.3	(14.0-54.6)	36.9	(18.2-73.8)		
Lincoln	2						
Lyon	118	72.9	(59.8-86.1)	67.1	(55.2-81.2)		
Mineral	25	90.8	(55.2-126.4)	69.7	(44.5-107.9)		
Nye	89	60.0	(47.5-72.4)	43.9	(34.8-55.7)		
Pershing	8						
Storey	3						
Washoe	661	40.4	(37.3-43.4)	47.9	(44.2-51.8)		
White Pine	17	39.0	(20.4-57.5)	35.1	(20.4-58.1)		
Unknown	0						
Total	4,034	43.4	(42.0-44.7)	49.4	(47.8-51.0)		

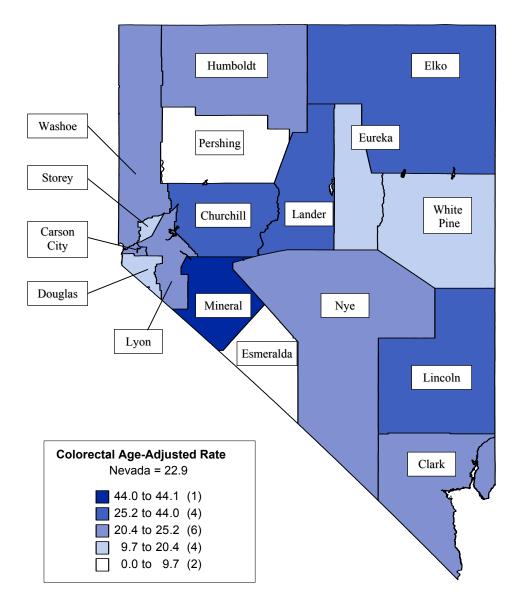
Note: The "---" is used for rates calculated on numbers less than ten. \*Rates are per 100,000 population. \*\*Rates are per 100,000 population and are age-adjusted to the 2000 US Standard population.

Table 120. Colorectal Cancer Inpatient Discharges by Age Group, Charges and Length of Stay, Nevada Residents, 1996-2000

Age	Discharges	Charges (\$)			Length of Stay (Days)		
Group	Group	Total	Average	Median	Total	Average	Median
<1	0						
1-4	0						
5-14	0						
15-24	2						
25-34	29	874,733	30,163	20,806	242	8.3	6.0
35-44	117	3,791,834	32,409	25,174	985	8.4	7.0
45-54	356	11,050,332	31,040	23,886	2,865	8.0	7.0
55-64	807	25,775,710	31,940	25,649	6,514	8.1	7.0
65-74	1,320	43,015,660	32,588	25,088	10,753	8.1	7.0
75-84	1,112	39,751,121	35,747	26,527	10,314	9.3	7.0
85+	291	10,183,528	34,995	27,007	2,798	9.6	8.0
Unknown	0						
Total	4,034	134,658,129	33,381	25,540	34,507	8.6	7.0

# **MORTALITY**

Figure 83. Colorectal Cancer Age-Adjusted (2000) Mortality Rates, Nevada Residents, 1996-2000



Note: Rates are per 100,000 population and age-adjusted to 2000 US Standard population. Caution should be used when interpreting rates based upon small numbers. See Technical notes for more information.

Figure 84. Colorectal Cancer Age-Adjusted Mortality Rates by County/Region of Residence, Nevada Residents, 1996-2000

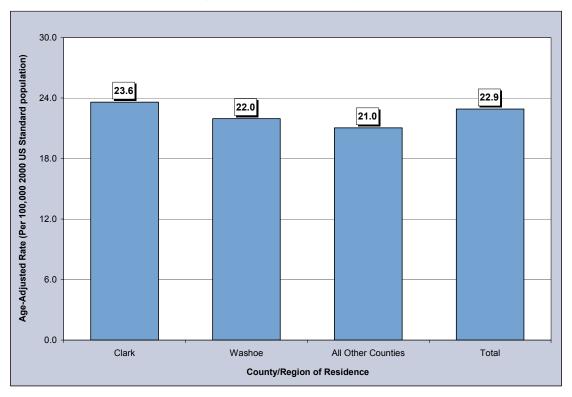


Figure 85. Colorectal Cancer Age-Adjusted Mortality Rates by Race/Ethnicity, Nevada Residents, 1996-2000

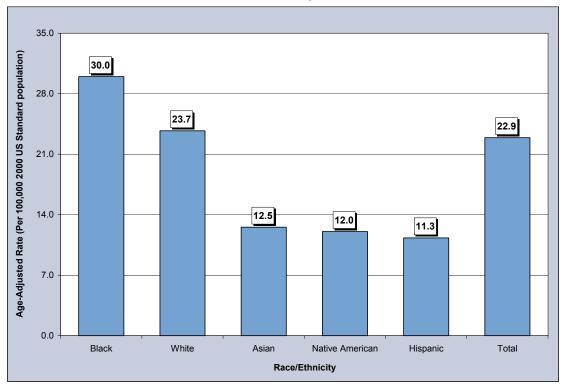


Table 121. Colorectal Cancer Mortality by Gender, Race/Ethnicity and County/Region of Residence, Nevada Residents, 1996-2000

		County/Region	n of Residence	
Category	Nevada Total	Clark	Washoe	All Other Counties
Total				
Mortality	1,792	1,223	294	275
Rate*	22.9	23.6	22.0	21.0
95% C.I.	(21.8-24.0)	(22.2-25.0)	(19.5-24.7)	(18.6-23.8)
Gender				
Male	1,011	692	177	142
Rate*	28.0	28.9	30.0	22.6
95% C.I.	(26.1-30.0)	(26.5-31.4)	(25.4-35.4)	(18.8-27.0)
Female	781	531	117	133
Rate*	18.8	19.3	16.0	19.4
95% C.I.	(17.5-20.2)	(17.7-21.1)	(13.2-19.2)	(16.2-23.1)
Other/Unknown	0	0	0	0
Race/Ethnicity				
White	1,572	1,038	274	260
Rate*	23.7	24.5	23.0	21.5
95% C.I.	(22.5-24.9)	(23.0-26.1)	(20.3-26.0)	(18.9-24.4)
Black	110	105	4	1
Rate*	30.0	31.2		
95% C.I.	(24.1-37.1)	(24.9-38.9)		
Native American	10	4	4	2
Rate*	12.0			
95% C.I.	(5.4-24.4)			
Asian	42	33	7	2
Rate*	12.5	12.3		
95% C.I.	(8.8-19.6)	(8.3-21.0)		
Hispanic	57	42	5	10
Rate*	11.3	10.8		18.5
95% C.I.	(8.3-15.5)	(7.4-15.8)		(8.2-38.5)
Other/Unknown	1	1	0	0

Note: The "---" is used for rates calculated on numbers less than ten.

<sup>\*</sup>Rates are per 100,000 population and are age-adjusted to the 2000 US Standard population.

Table 122. Colorectal Cancer Mortality by Age Group and County/Region of Residence, Nevada Residents, 1996-2000

		County/Regio	n of Residence	
Category	Nevada Total	Clark	Washoe	All Other Counties
Total				
Mortality	1,792	1,223	294	275
Rate*	19.3	19.4	18.0	20.1
95% C.I.	(18.4-20.2)	(18.3-20.5)	(15.9-20.0)	(17.7-22.4)
Age Group				
<1	0	0	0	0
Rate*				
95% C.I.				
1-4	0	0	0	0
Rate*				
95% C.I.				
5-14	0	0	0	0
Rate*				
95% C.I.				
15-24	1	0	1	0
Rate*				
95% C.I.				
25-34	8	7	0	1
Rate*				
95% C.I.				
35-44	43	31	10	2
Rate*	2.9	3.1	3.6	
95% C.I.	(2.0-3.7)	(2.0-4.2)	(1.4-5.8)	
45-54	117	85	18	14
Rate*	9.7	10.7	8.0	7.3
95% C.I.	(7.9-11.4)	(8.4-13.0)	(4.3-11.7)	(3.5-11.1)
55-64	308	216	49	43
Rate*	35.8	37.1	34.6	31.2
95% C.I.	(31.8-39.8)	(32.2-42.1)	(24.9-44.3)	(21.9-40.5)
65-74	579	401	96	82
Rate*	93.4	96.7	95.2	78.5
95% C.I.	(85.8-101.0)	(87.3-106.2)	(76.1-114.2)	(61.5-95.5)
75-84	533	360	76	97
Rate*	162.6	166.5	138.1	171.7
95% C.I.	(148.8-176.4)	(149.3-183.7)	(107.1-169.2)	(137.6-205.9)
85+	203	123	44	36
Rate*	288.1	287.1	305.2	272.9
95% C.I.	(248.5-327.8)	(236.4-337.9)	(215.0-395.4)	(183.7-362.0)
Unknown	0	0	0	0

Note: The "---" is used for rates calculated on numbers less than ten.

<sup>\*</sup> Rates are per 100,000 age-specific population.

Table 123. Colorectal Cancer Mortality by County of Residence, Nevada Residents, 1996-2000

Country of	1996-2000 Mortality						
County of Residence	Casas	Rat	te*	Age-Adjus	ted Rate**		
	Cases	Rate	95% C.I.	Rate	95% C.I.		
Carson City	57	23.3	(17.2-29.3)	20.4	(15.4-26.7)		
Churchill	29	24.6	(15.6-33.5)	27.0	(18.0-39.3)		
Clark	1,223	19.4	(18.3-20.5)	23.6	(22.2-25.0)		
Douglas	29	14.5	(9.2-19.8)	12.9	(8.5-19.6)		
Elko	26	11.3	(7.0-15.7)	28.4	(18.0-42.8)		
Esmeralda	0						
Eureka	1						
Humboldt	12	14.3	(6.2-22.4)	22.9	(11.5-42.4)		
Lander	7						
Lincoln	7						
Lyon	42	26.0	(18.1-33.8)	24.2	(17.3-33.5)		
Mineral	14	50.9	(24.2-77.5)	44.1	(23.7-78.6)		
Nye	41	27.6	(19.2-36.1)	20.6	(14.5-29.7)		
Pershing	1						
Storey	1						
Washoe	294	18.0	(15.9-20.0)	22.0	(19.5-24.7)		
White Pine	8						
Unknown	0						
Total	1,792	19.3	(18.4-20.2)	22.9	(21.8-24.0)		

Note: The "---" is used for rates calculated on numbers less than ten. \*Rates are per 100,000 population. \*\*Rates are per 100,000 population and are age-adjusted to the 2000 US Standard population.

Table 124. Colorectal Cancer Mortality by Race/Ethnicity and Gender, Nevada Residents, 1996-2000

		Gender					
Race/Ethnicity		Male	Female	Total			
White	Mortality	876	696	1,572			
	Rate*	28.5	19.8	23.7			
	95% C.I.	(26.4-30.6)	(18.3-21.3)	(22.5-24.9)			
Black	Mortality	69	41	110			
	Rate*	43.4	20.1	30.0			
	95% C.I.	(31.9-59.2)	(14.1-28.2)	(24.1-37.1)			
Native	Mortality	7	3	10			
American	Rate*			12.0			
	95% C.I.			(5.4-24.4)			
Asian	Mortality	23	19	42			
	Rate*	16.9	9.2	12.5			
	95% C.I.	(10.4-31.6)	(5.3-20.0)	(8.8-19.6)			
Hispanic	Mortality	36	21	57			
	Rate*	15.3	7.8	11.3			
	95% C.I.	(10.2-23.9)	(4.6-13.0)	(8.3-15.5)			
Other/Unkr	nown	0	1	1			
Total	Mortality	1,011	781	1,792			
	Rate*	28.0	18.8	22.9			
	95% C.I.	(26.1-30.0)	(17.5-20.2)	(21.8-24.0)			

Note: The "---" is used for rates calculated on numbers less than ten. \*Rates are per 100,000 population and are age-adjusted to the 2000 US Standard population.

Table 125. Colorectal Cancer Mortality by Age Group and Gender, Nevada Residents, 1996-2000

Age	Gender						
Group	Male	Female	Total				
<1	0	0	0				
Rate*							
95% C.I.							
1-4	0	0	0				
Rate*							
95% C.I.							
5-14	0	0	0				
Rate*							
95% C.I.							
15-24	0	1	1				
Rate*							
95% C.I.							
25-34	2	6	8				
Rate*							
95% C.I.							
35-44	23	20	43				
Rate*	3.0	2.8	2.9				
95% C.I.	(1.8-4.2)	(1.6-4.0)	(2.0-3.7)				
45-54	67	50	117				
Rate*	10.9	8.4	9.7				
95% C.I.	(8.3-13.6)	(6.1-10.7)	(7.9-11.4)				
55-64 Data*	198	110	308				
Rate*	46.2	25.5	35.8				
95% C.I.	(39.7-52.6)	(20.7-30.2)	(31.8-39.8)				
65-74 Rate*	361 118.1	218 69.4	579 93.4				
95% C.I.	(105.9-130.3)	(60.2-78.6)	(85.8-101.0)				
75-84	276	257	533				
Rate*	187.2	142.6	162.6				
95% C.I.	(165.1-209.2)	(125.1-160.0)	(148.8-176.4)				
85+	84	119	203				
Rate*	370.5	249.1	288.1				
95% C.I.	(291.3-449.7)	(204.3-293.8)	(248.5-327.8)				
Unknown	(=3::3::3)	0	0				
Total	1,011	781	1,792				
Rate*	21.4	17.1	19.3				
95% C.I.	(20.1-22.7)	(15.9-18.3)	(18.4-20.2)				

Note: The "---" is used for rates calculated on numbers less than ten.

<sup>\*</sup> Rates are per 100,000 age-specific population.

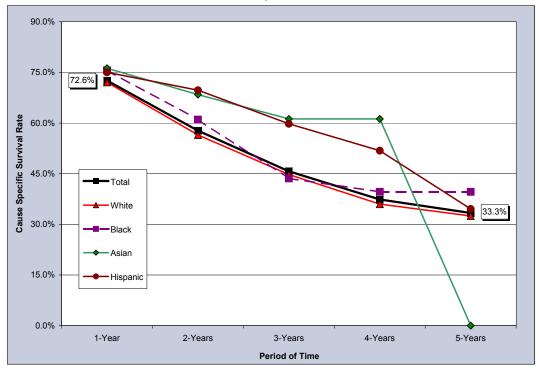
Table 126. Median Age at Death from Colorectal Cancer by Race/Ethnicity and Gender, Nevada Residents, 1996-2000

	Gender								
Race/Ethnicity	Ма	Male		nale	То	Total			
	Deaths	Median Age	Deaths	Median Age	Deaths	Median Age			
White	876	71.0	696	75.0	1,572	72.0			
Black	69	65.0	41	65.0	110	65.0			
Native American	7	56.0	3		10	67.5			
Asian	23	67.0	19	68.0	42	67.5			
Hispanic	36	69.5	21	69.0	57	69.0			
Other/Unknown	0		1		1				
Total	1,011	71.0	781	74.0	1,792	72.0			

Note: Those cases of other/unknown gender and/or unknown ages are not included in this table. The median age was not calculated for those numbers less than five.

# **SURVIVAL RATE**

Figure 86. Survival Rates for Colorectal Cancer by Race/Ethnicity, Nevada Residents, 1996-2000



Notes: The survival rate for those racial/ethnic groups not included in this chart could not be calculated due to small cell size.

Figure 87. Survival Rates for Colorectal Cancer by Stage of Cancer at Diagnosis, Nevada Residents, 1996-2000

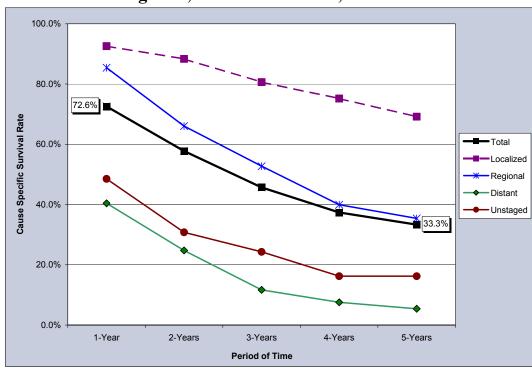


Table 127. Cause-Specific Survival Rates for Colorectal Cancer by Race/Ethnicity and Gender, Nevada Residents, 1996-2000

Race/	Number		Cause Specific Survival Rate				
Ethnicity and Gender	Ethnicity of Cases	One Year	Two Years	Three Years	Four Years	Five Years	Survival Time (years)
Total	2,864	72.6%	57.7%	45.7%	37.4%	33.3%	2.64
Male	1,509	71.6%	57.7%	43.5%	38.4%	36.9%	2.54
Female	1,353	73.6%	57.6%	48.2%	35.9%	28.7%	2.81
Race/Ethnicity							
White	2,532	72.1%	56.5%	44.7%	36.0%	32.5%	2.55
Male	1,340	71.5%	57.1%	43.1%	37.6%	37.6%	2.51
Female	1,190	72.6%	55.7%	46.5%	34.0%	26.9%	2.62
Black	151	75.6%	61.0%	43.6%	39.6%	39.6%	2.63
Male	78	70.3%	57.3%	38.2%	31.3%	31.3%	2.38
Female	73	81.4%	65.1%	49.3%	49.3%	49.3%	2.96
Native American	11						
Male	9						
Female	2						
Asian	66	76.2%	68.4%	61.2%	61.2%		
Male	33						
Female	33						
Hispanic	88	75.0%	69.7%	59.8%	51.8%	34.5%	4.10
Male	45						
Female	43						

Notes: 1) The "---" indicates that survival rate could not be calculated due to small cell size. Caution should be used when interpreting survival rates based upon categories with a small number of cases. 2) Those cases where the gender and/or race/ethnicity were other/unknown, are not shown separately, but are included in the category totals. 3) These rates may not be directly comparable to National rates because of different methodologies. Caution should be used when trying to compare rates for Nevada and the Nation. For more information on the calculation of survival rates, please refer to Technical Notes section.

Table 128. Cause-Specific Survival Rates for Colorectal Cancer by Stage of Cancer at Diagnosis and Gender, Nevada Residents, 1996-2000

Surviv	/al Rate of Stage	Gender				
at Diagnosis		Total	Male	Female		
Total	Cases	2,864	1,509	1,353		
	One Year	72.6%	71.6%	73.6%		
	5 Years	33.3%	36.9%	28.7%		
	Median Survival	2.64	2.54	2.81		
Stage at Di	iagnosis					
In situ	Cases	0	0	0		
	One Year					
	5 Years					
	Median Survival					
Localized	Cases	871	463	406		
	One Year	92.6%	91.9%	93.3%		
	5 Years	69.2%	78.5%	57.9%		
	Median Survival	>5 years	>5 years	>5 years		
Regional	Cases	1,112	566	546		
	One Year	85.4%	86.4%	84.3%		
	5 Years	35.4%	42.8%	26.9%		
	Median Survival	3.21	3.17	3.24		
Distant	Cases	632	350	282		
	One Year	40.4%	37.0%	44.7%		
	5 Years	5.4%	4.6%	7.4%		
	Median Survival	0.84	0.79	0.90		
Unstaged	Cases	249	130	119		
	One Year	48.5%	50.5%	46.5%		
	5 Years	16.2%	0.0%	19.9%		
	Median Survival	0.97	1.02	0.93		

Notes: 1) The "---" indicates that survival rate could not be calculated due to small cell size. Caution should be used when interpreting survival rates based upon categories with a small number of cases. 2) These rates may not be directly comparable to National rates because of different methodologies. Caution should be used when trying to compare rates for Nevada and the Nation. For more information on the calculation of survival rates, please refer to Technical Notes section.